

# GILA RIVER BASIN

## 09486055 RILLITO CREEK AT LA CHOLLA BOULEVARD, NEAR TUCSON, AZ

**LOCATION.**--Lat 32° 18'12", long 111° 00'41", in SW1/4SW1/4NW1/4 sec. 15, T.13 S., R.13 E., Pima County, Hydrologic Unit 15050301, on right bank, 200 ft upstream from bridge on La Cholla Boulevard, 1.8 mi downstream from former gage, Rillito Creek near Tucson, 3.0 mi upstream from mouth, and 5.8 mi north of Tucson City Hall.

**DRAINAGE AREA.**--922 mi<sup>2</sup>.

**PERIOD OF RECORD.**--June 1990 to Sept. 1995 (published mean daily discharges over 200 ft<sup>3</sup>/s), Oct. 1995 to current year.

**GAGE.**--Water-stage recorder and crest-stage gages. Elevation of gage is 2,260 ft above sea level, from topographic map.

**REMARKS.**--Records poor. Only discharges above 25 ft<sup>3</sup>/s are recorded. Several small diversions above station for irrigation and for municipal and domestic supply, mostly by pumping from ground water.

**EXTREMES FOR PERIOD OF RECORD.**--Maximum discharge, 24,400 ft<sup>3</sup>/s Jan. 8, 1993, gage-height 11.39 ft; no flow for most of each year.

**EXTREMES FOR CURRENT YEAR.**--Peak discharges greater than base discharge of 500 ft<sup>3</sup>/s and (or) maximum (\*):

| Date          | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) | Date           | Time | Discharge (ft <sup>3</sup> /s) | Gage height (ft) |
|---------------|------|--------------------------------|------------------|----------------|------|--------------------------------|------------------|
| July 27 ..... | 1000 | 564                            | 3.49             | Aug. 28 .....  | 1930 | 2,710                          | 4.47             |
| Aug. 5 .....  | 1915 | *9,830                         | 6.65             | Sept. 6 .....  | 2000 | 2,340                          | 4.35             |
| Aug. 7 .....  | 0330 | 3,030                          | 4.56             | Sept. 10 ..... | 1715 | 1,710                          | 4.11             |

Minimum daily discharge, no flow for many days.

### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

| DAY   | OCT   | NOV   | DEC   | JAN   | FEB   | MAR   | APR   | MAY   | JUN   | JUL   | AUG     | SEP    |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|--------|
| 1     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 2     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 3     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | e21.0   | 0.00   |
| 4     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 23      | 0.00   |
| 5     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | e788    | 0.00   |
| 6     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | e21     | e162   |
| 7     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | e235    | e1.2   |
| 8     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 9     | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 10    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | e154   |
| 11    | 0.00  | 0.00  | e19   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | e66    |
| 12    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 13    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 14    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 15    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 16    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | e6.9  | 0.00    | 0.00   |
| 17    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 18    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 19    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 20    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 21    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 22    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 23    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 24    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 25    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 26    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 27    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | e43   | 0.00    | 0.00   |
| 28    | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | e211    | 0.00   |
| 29    | 0.00  | 0.00  | 0.00  | 0.00  | ---   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | e0.48   | 0.00   |
| 30    | 0.00  | 0.00  | 0.00  | e7.0  | ---   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |
| 31    | 0.00  | ---   | 0.00  | 0.00  | ---   | 0.00  | ---   | 0.00  | ---   | 0.00  | 0.00    | ---    |
| TOTAL | 0.00  | 0.00  | 19.00 | 7.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 49.90 | 1299.48 | 383.20 |
| MEAN  | 0.000 | 0.000 | 0.613 | 0.226 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 1.610 | 41.92   | 12.77  |
| MAX   | 0.00  | 0.00  | 19    | 7.0   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 43    | 788     | 162    |
| MIN   | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00  | 0.00    | 0.00   |

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

|      |       |       |       |       |       |       |       |       |       |       |       |       |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MEAN | 42.67 | 9.285 | 0.040 | 0.016 | 20.97 | 1.431 | 5.294 | 0.000 | 2.074 | 24.91 | 6.797 | 10.08 |
| MAX  | 299   | 64.9  | 0.28  | 0.11  | 148   | 10.0  | 31.3  | 0.000 | 12.4  | 140   | 20.0  | 53.7  |
| (WY) | 2001  | 2001  | 2002  | 2002  | 1998  | 1998  | 1998  | 1996  | 2000  | 1999  | 1999  | 1996  |
| MIN  | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| (WY) | 1996  | 1996  | 1996  | 1996  | 1996  | 1996  | 1996  | 1996  | 1996  | 1996  | 1997  | 1997  |

### SUMMARY STATISTICS

#### FOR 2001 CALENDAR YEAR

#### FOR 2002 WATER YEAR

#### WATER YEARS 1996 - 2002

|                          |       |        |         |       |       |             |
|--------------------------|-------|--------|---------|-------|-------|-------------|
| ANNUAL TOTAL             | 61.50 |        | 1758.58 |       | 11.27 |             |
| ANNUAL MEAN              | 0.168 |        | 4.818   |       | 30.8  |             |
| HIGHEST ANNUAL MEAN      |       |        |         |       | 0.000 |             |
| LOWEST ANNUAL MEAN       |       |        |         |       | 0.000 |             |
| HIGHEST DAILY MEAN       | 30    | Aug 30 | 788     | Aug 5 | 5290  | Oct 23 2000 |
| LOWEST DAILY MEAN        | 0.00  | Jan 1  | 0.00    | Oct 1 | 0.00  | Oct 1 1995  |
| ANNUAL SEVEN-DAY MINIMUM | 0.00  | Jan 1  | 0.00    | Oct 1 | 0.00  | Oct 1 1995  |
| 10 PERCENT EXCEEDS       | 0.00  |        | 0.00    |       | 0.00  |             |
| 50 PERCENT EXCEEDS       | 0.00  |        | 0.00    |       | 0.00  |             |
| 90 PERCENT EXCEEDS       | 0.00  |        | 0.00    |       | 0.00  |             |

e Estimated